

09/ 930,734

Welcome to STN International! Enter x:x

LOGINID:sssptal202txn

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
NEWS 2 "Ask CAS" for self-help around the clock  
NEWS 3 SEP 09 CA/Caplu records now contain indexing from 1907 to the  
present  
NEWS 4 DEC 08 INPADOC: Legal Status data reloaded  
NEWS 5 SEP 29 DISSABS now available on STN  
NEWS 6 OCT 10 PCTFULL: Two new display fields added  
NEWS 7 OCT 21 BIOSIS file reloaded and enhanced  
NEWS 8 OCT 28 BIOSIS file segment of TOXCENTER reloaded and enhanced  
NEWS 9 NOV 24 MSDS-CCOHS file reloaded  
NEWS 10 DEC 08 CABA reloaded with left truncation  
NEWS 11 DEC 08 IMS file names changed  
NEWS 12 DEC 09 Experimental property data collected by CAS now available  
in REGISTRY  
NEWS 13 DEC 09 STN Entry Date available for display in REGISTRY and CA/Caplu  
NEWS 14 DEC 17 DGENE: Two new display fields added  
NEWS 15 DEC 18 BIOTECHNO no longer updated  
NEWS 16 DEC 19 CROPU no longer updated; subscriber discount no longer  
available  
NEWS 17 DEC 22 Additional INPI reactions and pre-1907 documents added to CAS  
databases  
NEWS 18 DEC 22 IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields  
NEWS 19 DEC 22 ABI-INFORM now available on STN  
  
NEWS EXPRESS DECEMBER 28 CURRENT WINDOWS VERSION IS V7.00, CURRENT  
MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),  
AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that  
specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 10:23:09 ON 15 JAN 2004

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

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FILE 'REGISTRY' ENTERED AT 10:23:17 ON 15 JAN 2004  
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Property values tagged with IC are from the ZIC/VINITI data file  
provided by InfoChem.

STRUCTURE FILE UPDATES: 13 JAN 2004 HIGHEST RN 637299-19-5  
DICTIONARY FILE UPDATES: 13 JAN 2004 HIGHEST RN 637299-19-5

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

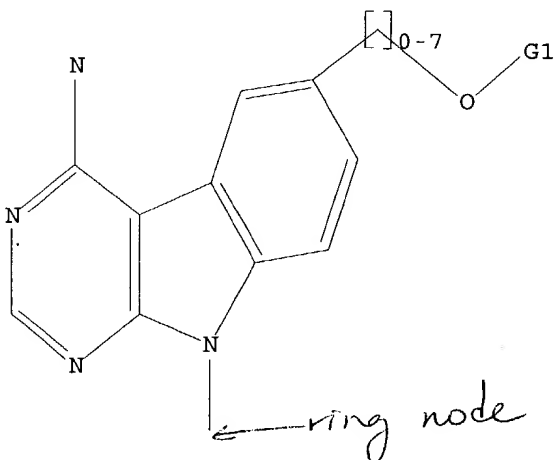
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more  
information enter HELP PROP at an arrow prompt in the file or refer  
to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>  
Uploading 09930734.str

L1 STRUCTURE UPLOADED

=> d l1  
L1 HAS NO ANSWERS  
L1 STR



G1 H, Ak

Structure attributes must be viewed using STN Express query preparation.

=> s l1 ful  
FULL SEARCH INITIATED 10:23:53 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 81 TO ITERATE

100.0% PROCESSED 81 ITERATIONS  
SEARCH TIME: 00.00.08

4 ANSWERS

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L2 4 SEA SSS FUL L1

=> file caplus

FILE 'CAPLUS' ENTERED AT 10:24:37 ON 15 JAN 2004  
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FILE COVERS 1907 - 15 Jan 2004 VOL 140 ISS 3  
FILE LAST UPDATED: 14 Jan 2004 (20040114/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l2

L3 3 L2

=> d l3 1- ibib abs hitstr

YOU HAVE REQUESTED DATA FROM 3 ANSWERS - CONTINUE? Y/(N):y

L3 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:677685 CAPLUS

DOCUMENT NUMBER: 139:302627

TITLE: Clear distinction of pyrimidine bases on the complementary strand by fluorescence change of novel fluorescent nucleosides

AUTHOR(S): Tanaka, Kazuo; Okamoto, Akimitsu; Saito, Isao

CORPORATE SOURCE: Department of Synthetic Chemistry and Biological Chemistry, Faculty of Engineering, Japan Science and Technology Corporation, Kyoto University, Kyoto, 606-8501, Japan

SOURCE: Nucleic Acids Research Supplement (2003), 3(3rd International Symposium on Nucleic Acids Chemistry [and] 30th Symposium on Nucleic Acids Chemistry in Japan, 2003), 171-172  
CODEN: NARSCE

PUBLISHER: Oxford University Press

DOCUMENT TYPE: Journal

LANGUAGE: English

AB New fluorescent nucleosides, methoxybenzodeazaadenine (MDA) and methoxybenzodeazainosine (MDI) can sharply distinguish between C and T bases, respectably. The hybridization of an ODN probe contg. MDA and MDI with a target DNA facilitates the judgment with the fluorescence spectra of the type of pyrimidine bases located at a specific site on the target DNA. The MDA- and MDI contg. ODN are very effective probes for pyrimidine SNP typing.

IT 532390-81-1

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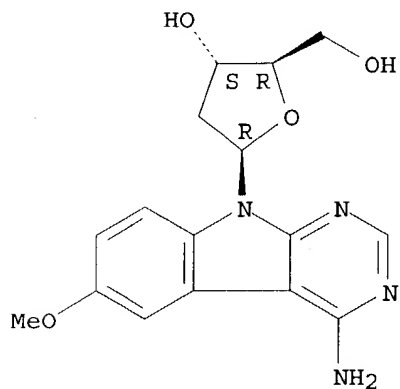
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(detection of pyrimidine bases of DNA by fluorescent nucleosides)

RN 532390-81-1 CAPLUS

CN 9H-Pyrimido[4,5-b]indol-4-amine, 9-(2-deoxy-.beta.-D-erythro-pentofuranosyl)-6-methoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:534727 CAPLUS

DOCUMENT NUMBER: 139:192119

TITLE: Design of base-discriminating fluorescent nucleoside and its application to T/C SNP typing

AUTHOR(S): Okamoto, Akimitsu; Tanaka, Kazuo; Fukuta, Tetsuo; Saito, Isao

CORPORATE SOURCE: Department of Synthetic Chemistry and Biological Chemistry, Faculty of Engineering, Kyoto University and SORST Japan Science and Technology Corporation, Kyoto, 606-8501, Japan

SOURCE: Journal of the American Chemical Society (2003), 125(31), 9296-9297

CODEN: JACSAT; ISSN: 0002-7863

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

AB We report a novel method for base detection using a base-discriminating fluorescent (BDF) nucleoside. We developed BDF probes contg. methoxybenzodeazaadenine MDA and methoxybenzodeazainosine MDI, which give strong fluorescence only when the base on the complementary strand is cytosine and thymine, resp. Thus, the MDA- and MDI-contg. ODNs can be used as a very effective BDF probe for the detection of single base alterations, such as SNPs and point mutations. The present method using BDF probes is a very powerful tool for SNP typing that does not require any enzymes and time-consuming steps, and can avoid hybridization errors. In addn., a combination of MDA- and MDI-contg. BDF probes facilitates the T/C SNP typing of a heterozygous sample.

IT 532390-81-1

RL: ARU (Analytical role, unclassified); BUU (Biological use, unclassified); ANST (Analytical study); BIOL (Biological study); USES (Uses)

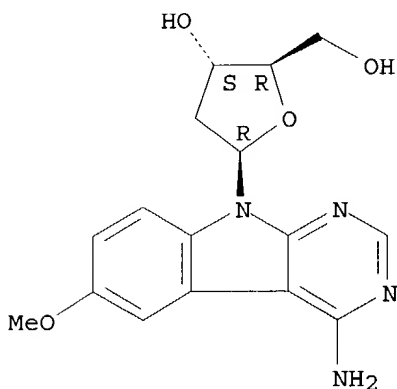
(MDA; design of base-discriminating fluorescent (BDF) nucleoside and application to T C SNP typing)

RN 532390-81-1 CAPLUS

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CN 9H-Pyrimido[4,5-b]indol-4-amine, 9-(2-deoxy-.beta.-D-erythro-pentofuranosyl)-6-methoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:266371 CAPLUS

DOCUMENT NUMBER: 139:2500

TITLE: Rational Design of a DNA Wire Possessing an Extremely High Hole Transport Ability

AUTHOR(S): Okamoto, Akimitsu; Tanaka, Kazuo; Saito, Isao

CORPORATE SOURCE: Department of Synthetic Chemistry and Biological Chemistry, Faculty of Engineering, Kyoto University, Kyoto, 606-8501, Japan

SOURCE: Journal of the American Chemical Society (2003), 125(17), 5066-5071

CODEN: JACSAT; ISSN: 0002-7863

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 139:2500

AB DNA is a promising conductive biopolymer. However, there are problems that need to be solved to realize real DNA wires. These include the low efficiency of hole transport and the serious oxidative damage that can occur during hole transport. We have demonstrated a protocol for the design of a DNA wire that can effectively mediate hole transport that is not adversely affected by oxidn. during hole transport through the DNA duplex. We have synthesized a stable and effective DNA wire by incorporating a designer nucleobase, benzodeazaadenine derivs., which have lower oxidn. potentials and wider stacking areas but are not decompd. during hole transport.

IT 532390-81-1P 532390-82-2P 532390-83-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

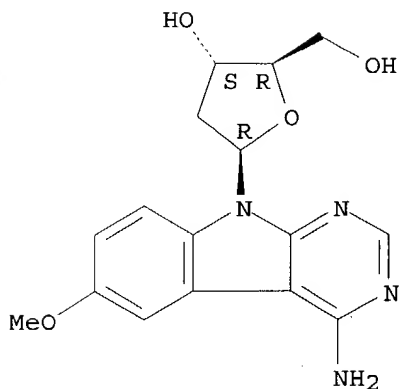
(DNA wire can possess extremely high hole transport with highly ordered base stacking without adversely affected by oxidn.)

RN 532390-81-1 CAPLUS

CN 9H-Pyrimido[4,5-b]indol-4-amine, 9-(2-deoxy-.beta.-D-erythro-pentofuranosyl)-6-methoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

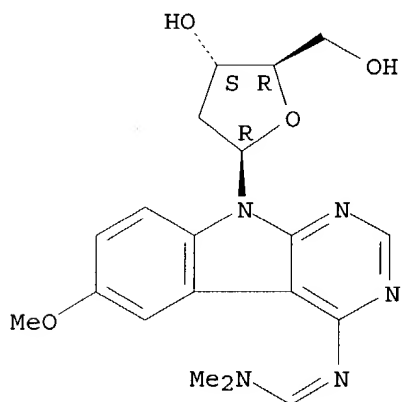
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RN 532390-82-2 CAPLUS

CN Methanimidamide, N'-[9-(2-deoxy-.beta.-D-erythro-pentofuranosyl)-6-methoxy-9H-pyrimido[4,5-b]indol-4-yl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
Double bond geometry unknown.

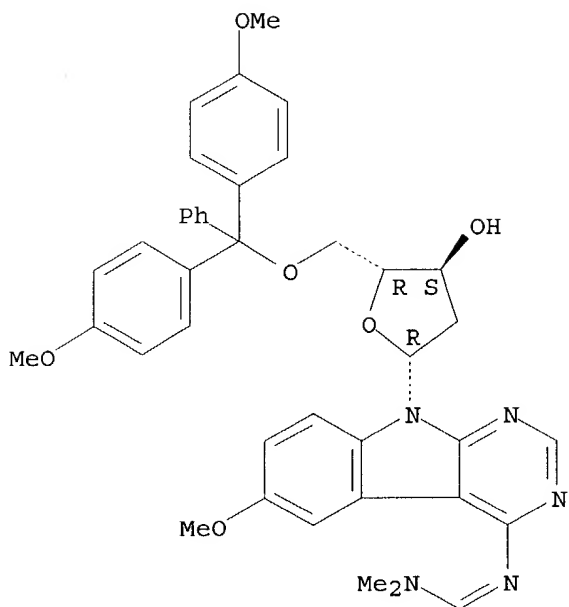


RN 532390-83-3 CAPLUS

CN Methanimidamide, N'-[9-[5-O-[bis(4-methoxyphenyl)phenylmethyl]-2-deoxy-.beta.-D-erythro-pentofuranosyl]-6-methoxy-9H-pyrimido[4,5-b]indol-4-yl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
Double bond geometry unknown.

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IT 532390-84-4P

RL: SPN (Synthetic preparation); PREP (Preparation)

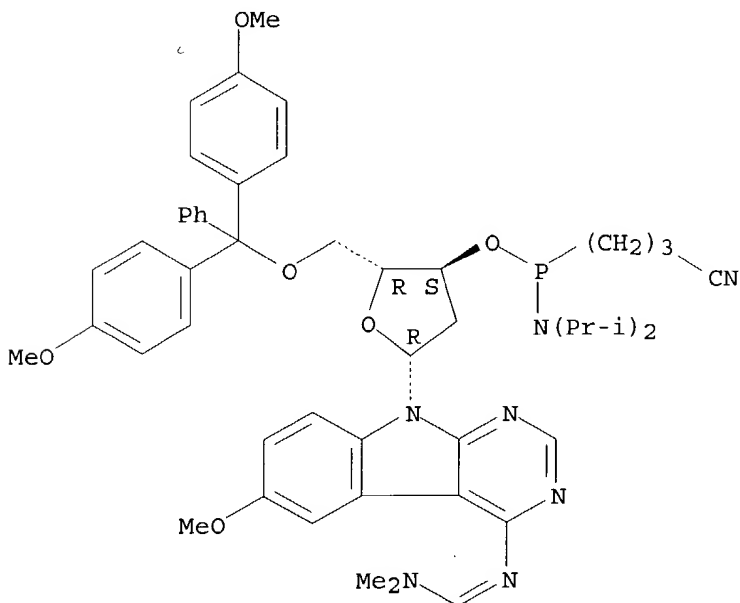
(DNA wire can possess extremely high hole transport with highly ordered base stacking without adversely affected by oxidn.)

RN 532390-84-4 CAPLUS

CN Methanimidamide, N'-[9-[5-O-[bis(4-methoxyphenyl)phenylmethyl]-3-O-[[bis(1-methylethyl)amino](2-cyanoethoxy)phosphino]-2-deoxy-.beta.-D-erythro-pentofuranosyl]-6-methoxy-9H-pyrimido[4,5-b]indol-4-yl]-N,N-dimethyl-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.



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REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 10:23:09 ON 15 JAN 2004)

FILE 'REGISTRY' ENTERED AT 10:23:17 ON 15 JAN 2004

L1 STRUCTURE UPLOADED

L2 4 S L1 FUL

FILE 'CAPLUS' ENTERED AT 10:24:37 ON 15 JAN 2004

L3 3 S L2

=> log y

STN INTERNATIONAL LOGOFF AT 10:25:28 ON 15 JAN 2004